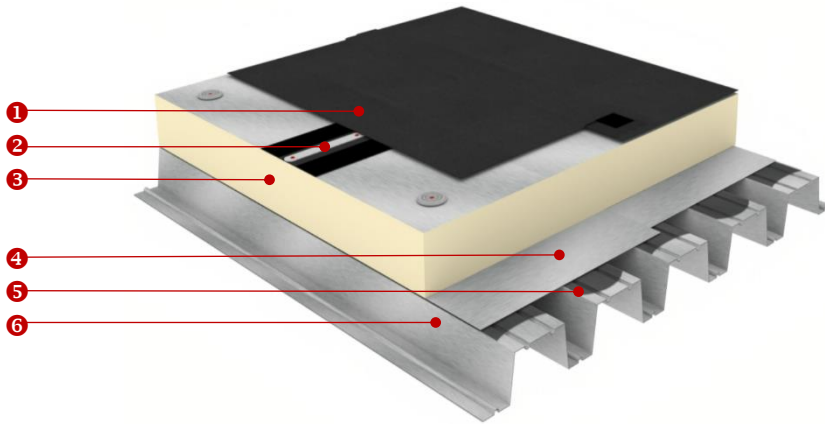


## RubberGard™ EPDM Single Ply Roofing System Mechanically Attached System (RMA)



The Elevate EPDM RMA System is a lightweight, non-penetrating mechanically attached system developed around the QuickSeam RMA strip: a strip of reinforced EPDM membrane incorporating two strips of self-adhesive QuickSeam Splice Tape laminated along each edge over the length of the strip.

The profiled steel deck (min. 0.75mm thick) **6** is laid to falls designed to achieve a minimum finished slope as per local requirement to encourage efficient roof drainage.

A vapor control layer **4** is placed on top of the steel deck (if required) and will restrict the passage of moisture vapour up into the insulation layer where it could otherwise condense and cause damage. Elevate also offers **V-Gard** with self-adhesive bituminous backing aluminium foil vapor control layer. For better performance, the steel deck can be primed with **SA-19 Primer** **5** in preparation for application of the vapor control layer.

Elevate **ISOGARD** Polyiso (PIR) roof insulation boards **3** (of appropriate thickness to achieve the required roof U-value) are fastened to the steel deck with insulation plates & fasteners. Fastening pattern is chosen in line with Elevate installation guidelines and to accommodate for wind loading.

The **QuickSeam RMA** Strips **2** are secured to the steel deck using approved plates/batten bars and fasteners. Spacing of the plates and/or fasteners differs to accommodate for wind loadings and are positioned according to the parameters of the wind load calculation based on local or international standards.

The **RubberGard EPDM** Single Ply Roofing Membrane **1** is spliced onto the QuickSeam RMA strips using **QuickSeam Splice Tape** seaming techniques. The system typically uses 6.10m and 9.15m wide panels of RubberGard EPDM membrane.

### RMA System Features Include:

- Non-penetrating
- Use of large EPDM sheets
- Fewer seams
- Fast coverage
- Lightweight system
- Aesthetics
- High wind uplift performance
- Safe, flame-free installation

### RubberGard™ EPDM Features Include:

- > 300% elasticity to cope with building & thermal movement
- High Flexibility at low temperatures (down to -45°C)
- Large, seamless sheets – less detailing on site, faster installation
- UV Resistant for long service life
- Environmentally friendly
- May only be installed by Elevate-trained, Authorised and Licensed Contractors

### Elevate System Components:

- RubberGard EPDM
- QuickSeam RMA strip
- ISOGARD AK PIR
- ISOGARD MG PIR
- V-Gard Vapor Control layer
- SA-19 Primer

## Specification Details & Options

Membrane	Thickness
RubberGard EPDM	1.1 mm
RubberGard EPDM	1.5 mm

The single ply waterproofing membrane will be of 100% cured non-reinforced, Ethylene-Propylene-Diene Terpolymer (EPDM) synthetic rubber, manufactured in an ISO9001 registered facility. The membrane will have minimum unspliced width of 3.05m.

**Specification compliance:**  
 UL Classified/ FM Approved  
 ASTM D 4637/ EN 13956 (CE Mark)  
 7500 hrs of Artificial Ageing as per EN 1297

Thermal insulation	Thickness	Thermal conductivity ( $\lambda$ -value)
ISOGARD AK	Ranging from 30 to 160 mm	0.023 W/m.K
ISOGARD MG	Ranging from 30 to 160 mm	0.025-0.028 W/m.K

Please consult Elevate Technical Services Department for R-Value/U-value calculations as required.

Elevate **ISOGARD AK** insulation board consists of a closed-cell polyiso (PIR) foam core laminated on both sides to a gastight multi-layered aluminium complex.

Elevate **ISOGARD MG** insulation board consists of a closed-cell polyiso (PIR) foam core laminated on both sides to a gasopen mineral glassfibre facer.

**Specification compliance:**  
 EN 13165 (CE Mark)

## Waterproofing Details

Lap Splices		100mm minimum overlap with 76mm QuickSeam Splice Tape
Mechanical Attachment		Using QuickSeam RMA strip
Base Tie-in	1	QuickSeam RPF Strips mechanically attached to the structure with metal batten bars or approved plates & appropriate fasteners @300mm max. o.c.
	2	RubberGard membrane mechanically attached to the structure with metal batten bars & appropriate fasteners @300mm max. o.c.
Flashings		The RubberGard EPDM membrane is fully adhered to all abutments and reveals to masonry with Bonding Adhesive and terminated at a height not less than 150mm above the finished roof level
Corners	1	QuickSeam FormFlash is used for corner flashing
	2	Folded internal corners are preferred where practical
Pipe penetrations	1	Field-fabricate using QuickSeam FormFlash
	2	Flashing of pipe penetrations with QuickSeam Pipe boots & Conduit Flashing
Drains	1	Water block sealant installed between membrane and outlet bowl. Membrane mechanically secured to outlet using integral clamping ring
	2	Insert outlet bedded on Water Block Sealant, secured & flashed with QuickSeam FormFlash or SA Flashing
Wall Terminations	1	Termination bar, fastened @200mm max. o.c. with Water Block Sealant and Lap Sealant HS installed along top edge
	2	Metal batten bar fastened @150mm max. o.c. with surface mounted or inserted metal counterflashing protection
Surface protection		QuickSeam Walkway Pads to define and protect access routes

## Green Building Rating Schemes

Elevate is a leading BREEAM & LEED advocate and is pleased to offer roofing, lining & insulation products which contribute to achieve high ratings. For an overview of the standards set by both BREEAM & LEED and how Elevate products can minimize your environmental impact and maximize building value, you may contact your local Elevate sales representative.

<b>BREEAM</b>	Up to <b>24 credits</b> can be contributed by using the RubberGard™ EPDM Roof Mechanically Attached System (RMA) System, as per BREEAM Green Building Rating Scheme.
<b>LEED</b>	Up to <b>30 credits</b> can be contributed by using the RubberGard™ EPDM Roof Mechanically Attached System (RMA) System, as per LEED Green Building Rating Scheme.

Note: This document is meant only to highlight Elevate products and specifications based on latest knowledge and experience and is subject to change without notice. Above mentioned values are based on tested samples and may vary within applicable tolerances. For latest and complete product and detail information, please refer to the technical information posted on [www.holcimelevate.com](http://www.holcimelevate.com). Holcim Solutions and Products EMEA BV ("Holcim") takes responsibility for furnishing quality materials which meet Holcim's published product specifications. As neither Holcim itself nor its representatives practice architecture, Holcim offers no opinion on and expressly disclaims any responsibility for the soundness of any structure on which its products may be applied. The selection of the appropriate product and its correct application is the responsibility of the customer and not of Holcim. No Holcim Representative is authorized to vary this disclaimer.